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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/813,562	3,562 03/30/2004 Walton Fong		HITG.048PA(0549)	4116		
7590 05/31/2006			EXAMINER			
Chambliss, Bahner & Stophel, P.C. 1000 Tallan Building			RODRIGUEZ	RODRIGUEZ, GLENDA P		
Two Union Square			ART UNIT	PAPER NUMBER		
Chattanooga, TN 37402			2627			

DATE MAILED: 05/31/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Applie	cation No.	Applicant(s)		
· Office Action Summary		10/81	3,562	FONG ET AL.		
		Exam	iner	Art Unit		
		Glend	a P. Rodriguez	2627		
Period fo	The MAILING DATE of this commun or Reply	ication appears or	the cover sheet with	the correspondence add	ress	
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Status						
	Responsive to communication(s) file This action is <b>FINAL</b> .	ed on <u>03 <i>March 20</i></u> 2b)⊠ This action	<del></del>			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits						
	closed in accordance with the practic		•	·		
Dispositi	ion of Claims					
5)□ 6)⊠ 7)□	Claim(s) 1-15 is/are pending in the a 4a) Of the above claim(s) is/are Claim(s) is/are allowed. Claim(s) 1-15 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restrict	re withdrawn from				
Applicati	on Papers					
9)	The specification is objected to by the	e Examiner.				
10)	The drawing(s) filed on is/are:	a) accepted o	r b)□ objected to by	y the Examiner.		
	Applicant may not request that any object	ction to the drawing	(s) be held in abeyanc	e. See 37 CFR 1.85(a).		
11)	Replacement drawing sheet(s) including The oath or declaration is objected to			•		
Priority ι	ınder 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
2) 🔲 Notic 3) 🔯 Infori	et(s)  be of References Cited (PTO-892)  be of Draftsperson's Patent Drawing Review (Pmation Disclosure Statement(s) (PTO-1449 or Pr No(s)/Mail Date		Paper No(s)	mmary (PTO-413) Mail Date ormal Patent Application (PTO-	-152)	

## **DETAILED ACTION**

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## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1, 2, 4-7, 9-12, 14 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Egan et al. (US Patent No. 7, 023, 632) in view of Haddock (US Patent No. 6, 707, 631).

Regarding Claim 1, Egan et al. teaches a method for minimizing the cycle time of a burnish test cycle, comprising:

Measuring an initial MR resistance for a head (Col. 2, L. 14-40 and Col. 4, L. 30-40, wherein the read or MR/write head is being monitored for its clearance towards the disk surface. According to the Applicant's Specification in Page 8, L. 7-10 and Page 11, L. 9-14);

Determining whether the measured MR resistance indicates the head has clearance (Col. 4, L. 60 to Col. 5, L. 33, wherein it teaches how the read heads detects the prevention of head to disk contact or PTP or clearance);

And completing the test cycle when the head is determined to have clearance (See Col. 7, L. 46-50 and Fig. 7).

However, Egan et al. does not explicitly teach performing an initial burnishing operation. This limitation is taught by Haddock in Col. 2, L. 27-44. It would have been obvious to a person of

ordinary skill in the art, at the time the invention was made, to modify Egan et al.'s invention

with the teaching of Haddock in order to be able to prevent head to disk contact by the act of

burnishing the head as disclosed in the Abstract of Haddock.

Claim (6) has limitations similar to those treated in the above rejection, and is met by the

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references as discussed above. Claim (6) however also recites the following limitations: a

memory for storing data therein (Element 136 which is a storage disk).

Program storage device claim (11) is drawn to the device corresponding to the method of

using same as claimed in claim (1). Therefore program storage device claim (11) correspond to

method claim (1), and is rejected for the same reasons of obviousness as used above.

Regarding Claims 2, 7 and 12, the combination of Eganb et al. and Haddock teach all the

limitations of Claims 1, 6 and 11, respectively. The combination further teach wherein:

Reducing the fly-height of the head when the measured MR resistance indicates

the head not to have clearance (See Col. 7, L. 31-62, wherein it teaches that when

the read head detects transitions which indicate improper head to disk clearance or

PTP, it proceeds to burnish the head. See also Fig. 6);

Perform a subsequent burnish operation (See Col. 7, L. 31-62, Step 76 and Fig.

6);

Measuring the MR resistance again (See Fig. 6, wherein after burnishing Step 76,

it proceeds to verify if the transitions are still unacceptable in Step 70.);

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And returning to determine whether the measured MR resistance indicates the

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head has clearance (See Fig. 6, Step 70 determines if the PTP or fly-height

transitions are acceptable. See also Col. 7, L. 45-51).

Regarding Claim 4, 9 and 14, the combination of Egan et al. and Haddock teaches all the

limitations of Claims 1, 6 and 11, respectively. The combination further teaches comparing the

MR resistance to a threshold (See Fig. 6, Step 70, wherein the read of MR transition values are

compared to a threshold, thereby indicating a PTP or an unacceptable fly-height.)

Regarding Claims 5, 10 and 15, the combination of Egan et al. and Haddock teaches all

the limitations of Claims 1, 6 and 11, respectively. The combination further teaches comparing

the rate of change (the term "rate of change" and resistance is the same according to the

Applicant's Specification in Page 14, L. 2-3. Hence, see Fig. 6, Step 70 and explanation of

rejection to Claims 4, 9, and 14.).

3. Claims 3, 8 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over the

combination of Egan et al. and Haddock as applied to claims 2, 7 and 12, respectively above, and

further in view of Smith (US Patent No. 6, 417, 981). The combination teaches all the

limitations of Claims 2, 7 and 12, respectively. However, the combination does not explicitly

teach wherein reducing the speed. This limitation is taught by Smith in the Abstract. It would

have been obvious to a person of ordinary skill in the art, at the time the invention was made, to

modify the combination's invention in order to measure the clearance between the head and the

moving medium as taught by Smith in the Abstract.

Response to Arguments

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4. Applicant's arguments with respect to claims 1-15 have been considered but are moot

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in view of the new grounds of rejection due to the newly amended Claims 1-9 and 12-15. Claim

11 was not amended.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Glenda P. Rodriguez whose telephone number is (571) 272-7561.

The examiner can normally be reached on Monday thru Thursday: 7:00-5:00; alternate Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Wayne Young can be reached on (571) 272-7582. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

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system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

05/17/06.

WAYNE YOUNG

SUPERVISORY PATENT EXAMINE